«Conditions for creating a habitable planet»

To make a planet habitable for life, several conditions are necessary: a magnetic field, an atmosphere, a hydrosphere, a biosphere, an energy supply.

Maintaining an atmosphere, a hydrosphere and other life-supporting factors requires surface gravity.

To produce surface gravity, the planet must have sufficient mass. At present, the only abundant sources of the material needed to create such mass are other astronomical bodies (planets, satellites, asteroids, etc.).

Reference:
Govert Schilling(2024-07-30). "What makes a planet habitable? 7 key conditions for a planet to be suitable for life as we know it". BBC Sky at Night Magazine.

https://www.skyatnightmagazine.com/space-science/what-makes-a-planet-habitable

First published on Wikipedia, "Artificial planet", from August 21, 2025.

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